

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on **October 27, 2003** in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR § 1.10, Mailing Label Number **EU721845695US** addressed to the Assistant Commissioner of Patents, Washington, DC 20231.

  
Jay R Beyer

Attorney Docket No.: **DCI-6CIP1D3**

First Named Inventor:

**Guenter W. Brune**

**EU 721845695 US**

22154 U.S. PTO  
10/694926



**UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR § 1.53(b))**  
(Continuation, Divisional or Continuation-in-part application)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

☒ Duplicate for  
fee processing

Sir: This is a request for filing a patent application under 37 CFR. § 1.53(b) in the name of inventors:

**Guenter W. Brune, Peter H. Hambling, John E. Mercer, Lloyd A. Moore, Shiu Sang Ng, and Rudolf Zeller**

For: **ESTABLISHING POSITIONS OF LOCATING FIELD DETECTORS AND PATH MAPPING IN UNDERGROUND BORING TOOL APPLICATIONS**

This application is a ☐ Continuation ☒ Divisional ☐ Continuation-in-part of copending application **10/353,718**, filed on **January 28, 2003**; which is a continuation of application **10/039,971**, filed on **October 25, 2001**, and issued as patent **6,536,538 B2** on **March 25, 2003**; which is a continuation of application. **09/845,238**, filed on **April 30, 2001**, and issued as patent **6,364,035** on **April 2, 2002**; which is a continuation of application **09/324,221**, filed on **June 1, 1999**, and issued as patent **6,250,402** on **June 26, 2001**; which is a continuation-in-part of prior application **08/835,834** filed on **April 16, 1997**, and issued as patent **6,035,951** on **March 14, 2000**: from which priority under 35 U.S.C. § 120 is claimed.

**Application Elements:**

- ☒ **38** Pages of Specification, Claims and Abstract
- ☒ **9** Sheets of formal Drawings
- ☒ **4** Declaration
  - ☐ Newly executed (original or copy)
  - ☒ Copy from a prior application (37 CFR 1.63(d) for a continuation or divisional). The entire disclosure of the prior application from which a copy of the declaration is herein supplied is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
  - ☐ Deletion of inventors Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

**Accompanying Application Parts:**

- ☒ **2** Assignments and Assignment Recordation Cover Sheets (recording fee of \$80.00 authorized)
- ☐ Power of Attorney
- ☐ 37 CFR 3.73(b) Statement by Assignee
- ☒ Information Disclosure Statement with Form PTO-1449 ☐ Copies of IDS Citations
- ☐ Preliminary Amendment (*New claims numbered after highest original claim in prior application.*)
- ☒ Return Receipt Postcard
- ☐ Small Entity Statement(s) ☒ Statement filed in prior application. Status still proper and desired.
- ☐ Request and Certification under 35 USC 122(b)(2)(B)(i).
- ☐ Other:

Claim For Foreign Priority

- ☐ Priority of \_\_\_\_\_ Application No. \_\_\_\_\_ filed on \_\_\_\_\_  
is claimed under 35 U.S.C. § 119.  
☐ The certified copy has been filed in prior application U.S. Application No. \_\_\_\_\_  
☐ The certified copy will follow.

Extension of Time for Prior Pending Application

- ☐ A Petition for Extension of Time is being concurrently filed in the prior pending application. A copy of the Petition for Extension of Time is attached.

Amendments

- ☐ Amend the specification by inserting before the first line the sentence: "This is a  
☐ Continuation ☐ Continuation-in-part ☐ Divisional  
application of copending prior  
☐ Application No. \_\_\_\_\_, filed on \_\_\_\_\_,  
☐ International Application \_\_\_\_\_ filed on \_\_\_\_\_ which  
designated the United States,  
the disclosures of which are incorporated herein by reference."  
☒ Cancel in this application original claims **1-24 and 51-70** of the prior application  
before calculating the filing fee. (*At least one original independent claim must be retained.*)

Fee Calculation (37 CFR § 1.16)

NO. FILED	(Col. 1) (Col. 2)		SMALL ENTITY		OR	LARGE ENTITY		
	NO. EXTRA		RATE	FEE		RATE	FEE	
BASIC FEE				\$385	\$385	OR	\$770	\$
TOTAL CLAIMS	<u>26</u>	-20 =	<u>6</u>	x9 =	\$ 54	OR	x18 =	\$
INDEP CLAIMS	<u>2</u>	-03 =	<u>0</u>	x43 =	\$ 0	OR	x86 =	\$
[ ] Multiple Dependent Claim Presented				\$145 =	\$	OR	\$290 =	\$
* If the difference in Col. 1 is less than zero, enter "0" in Col. 2.				Total	\$439	OR	Total	\$

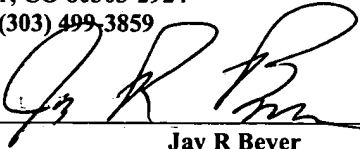
- ☒ Please charge Deposit Account No. **19-1685** (Order No. **DCI-6CIP1D3**) in the amount of **\$519.00** to cover the filing fee and assignment recordation fees.
- ☒ The Commissioner is authorized to charge any fees beyond the amount enclosed which may be required, or to credit any overpayment, to Deposit Account No. **19-1685** (Order No. **DCI-6CIP1D3**).

General Authorization for Petition for Extension of Time (37 CFR §1.136)

- ☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed.
- ☒ Please send correspondence to the following address: **Customer Number 21833**

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Date: October 27, 2003

  
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